

CLAIMS

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1. A recording paper comprising a paper support and a recording layer formed on the paper support, the paper support having a security element embedded therein, the security element being a thread-shaped security element or a ribbon-shaped security element, and the paper support having a thickness at least 3 times the diameter of the thread-shaped security element or at least 3 times the thickness of the ribbon-shaped security element.

2. The recording paper according to claim 1, in which the paper support has a thickness of 40 to 250 μm .

3. The recording paper according to claim 1, in which the security element is a thread composed of natural fibers or synthetic fibers.

4. The recording paper according to claim 1, in which the security element is a dyed thread, a thread having a vapor deposited metal layer or a thread combined with a metal foil.

5. The recording paper according to claim 1, in which the security element is a thread-shaped security element having a diameter of about 10 μm to about 80 μm .

6. The recording paper according to claim 1, in which the security element comprises a synthetic resin

film and is a ribbon-shaped security element having a color different from that of the paper support.

7. The recording paper according to claim 1, in which the security element is a ribbon-shaped security
5 element comprising a synthetic resin film provided with a vapor deposited metal layer on at least one side thereof, the paper support having a thickness of at least 3 times the total thickness of the vapor deposited metal layer and the synthetic resin film.

10 8. The recording paper according to claim 7, in which the vapor deposited metal layer is made of aluminum, copper, nickel, tin or zinc.

15 ~~9. The recording paper according to claim 1, in which the security element is a ribbon-shaped security element comprising a synthetic resin film or a metallized synthetic resin film, the ribbon-shaped security element having a width of about 0.3 mm to about 20 mm and a thickness of about 10 μ m to about 80 μ m.~~

20 10. The recording paper according to claim 1, in which the security element has an adhesive layer comprising an adhesive as a main component on at least part of its surface.

25 11. The recording paper according to claim 10, in which the adhesive layer adheres to the paper support by contact of the adhesive layer and water when the

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security element having the adhesive layer is embedded within the paper support during paper making, or by the heat applied when the paper is dried after production, or by the pressure applied during supercalendering.

5 12. The recording paper according to claim 10, in which the adhesive is a polyester resin-based adhesive, a urethane resin-based adhesive, an acrylic resin-based adhesive or a vinyl acetate resin-based adhesive.

10 13. The recording paper according to claim 10, in which the adhesive layer further comprises at least one member selected from the group consisting of a fluorescent dye, a fluorescent pigment and a luminescent pigment.

15 14. The recording paper according to claim 10, in which the adhesive layer is prepared by uniformly dispersing an adhesive, and if desired at least one member selected from the group consisting of a fluorescent dye, a fluorescent pigment and a luminescent pigment, in water or an organic solvent serving as a
20 medium to obtain a coating composition for forming an adhesive layer, applying the resulting coating composition for forming an adhesive layer to the thread-shaped security element or ribbon-shaped security element in an amount of about 1 g/m² to about 10 g/m² on a dry
25 weight basis, and drying the resulting coating.

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15. The recording paper according to claim 1, in which the recording layer is a heat-sensitive recording layer comprising an electron-donating compound, electron-accepting compound and a binder.

16. The recording paper according to claim 15, in which a protective layer containing a binder having a film forming ability is formed on the heat-sensitive recording layer.

17. The recording paper according to claim 1, in which the recording layer is a transfer receiving layer for thermal fusion transfer recording or sublimation transfer recording.

18. The recording paper according to claim 1, in which the recording layer is an ink-receiving layer for ink-jet recording.

19. The recording paper according to claim 1, wherein an intermediate layer containing a pigment or hollow organic particles is provided between the paper support and the recording layer.

20. A paper support for a recording paper, the paper support having a security element embedded therein, the security element being a thread-shaped security element or a ribbon-shaped security element, and the paper support having a thickness of at least 3 times the diameter of the thread-shaped security element or at

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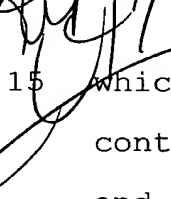
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27. The paper support according to claim 26, in which the vapor deposited metal layer is made of aluminum, copper, nickel, tin or zinc.

 ~~28. The paper support according to claim 20, in which the security element is a ribbon-shaped security element comprising a synthetic resin film or metallized synthetic resin film, the ribbon-shaped security element having a width of about 0.3 mm to about 20 mm and a thickness of about 10 μ m to about 80 μ m.~~

10 29. The paper support according to claim 20, in which the security element has an adhesive layer comprising an adhesive as a main component on at least part of its surface.

 ~~30. The paper support according to claim 29, in which the adhesive layer adheres to the paper support by contact of the security element having the adhesive layer and water when the security element having the adhesive layer is embedded within the paper support, by the heat applied when the paper is dried after production, or by~~
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20 the pressure applied during supercalendering.

31. The paper support according to claim 29, in which the adhesive is a polyester resin-based adhesive, a urethane resin-based adhesive, an acrylic resin-based adhesive or a vinyl acetate resin-based adhesive.

32. The paper support according to claim 29, in which the adhesive layer further comprises at least one member selected from the group consisting of a fluorescent dye, a fluorescent pigment and a luminescent pigment.

33. The paper support according to claim 29, in which the adhesive layer is prepared by uniformly dispersing an adhesive, and if desired at least one member selected from the group consisting of a fluorescent dye, a fluorescent pigment and a luminescent pigment, in water or an organic solvent serving as a medium to obtain a coating composition for forming an adhesive layer, applying the resulting coating composition for forming an adhesive layer to the thread-shaped security element or ribbon-shaped security element in an amount of about 1 g/m² to about 10 g/m² on a dry weight basis, and drying the resulting coating.

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